Docket JP920030152US1

Appl. No.: 10/699,024
Filing Date: October 31, 2003

IN THE SPECIFICATION

1. Included with this reply, as an attachment, is a sequence listing, which has been produced using the USPTO software PatentIn 3.3 and verified using the USPTO software Checker. Please amend the specification to include the accompanying sequence listing as an appendix.

2. Please enter amendments to the specification as set out below. In the amendments set out below, footnotes are added to tables in the specification in order to cross-reference sequences in the tables to sequences in the accompanying sequence listing.

Please amend Table 1 on page 13 as follows:

TABLE 1

seq 1:

gctactgggtaatagcagacgcgcgcgcggagcgcgaccagtgaaataaaaaaacgcgcgcgcgacaggagtaggccttctactataact gattac[1]

seq 2:

cagtaatcggactccagcgcgcgcgcgcgaaggagcggtgaggcgaaataatgaaaacagggctacgcctgcaaataactaaatactataca ttcttac[2]

seq 3:

acttgatcggtagctagacgcgcgcgcgaaataattaaacgcgcgcgcgacaggtataggccaaccggagaagctcccaaaaccgcgcg cgcgtactatatcatattac[3]

seq 4:

caaattgtaggggagcgcgcgcgcgacagggctacgccaaccgcgcgcgcgaaataactaaaacctccatactatatatcattaccttacaa gacgcttatgcaagggctac[4]

seq 5:

cacgggacgaaagtaattcgtaggggggcgcgcgcgcgaaataagaaaaacaggcctaagccttccgcgcgcgcgggctatgcggcgaaat ccgagc[5]

Footnotes:
1. sequence id 9 in accompanying sequence listing
2. sequence id 10 in accompanying sequence listing
3. sequence id 11 in accompanying sequence listing
4. sequence id 12 in accompanying sequence listing
5. sequence id 13 in accompanying sequence listing

Docket JP920030152US1

Appl. No.: 10/699,024
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Please amend Table 2 on page 14 as follows:

TABLE 2

10	5	cgcgcgcgcg[6] _____	0 19 0 54 1 17 2 18 2 39 2 83 3 15 3 41 4 27 4 64
5	5	aaataa..aaa _____	0 43 1 71 2 28 3 51 4 37
5	5	acagg..ta.gcc..c _____	0 64 1 55 2 49 3 25 4 48
4	4	tactata.....ttac _____	0 80 1 82 2 93 3 69

Footnotes:
6. sequence id 1 in accompanying sequence listing

Docket JP920030152US1

Appl. No.: 10/699,024
Filing Date: October 31, 2003

Please amend Table 3 on page 14 as follows:

TABLE 3

Match-Set as per requirements with k and δ

Replet	Match-set
cgcgcgcgcg[7]	{<0, 19, 0>, <0, 54, 0>, <1, 17, 0>, <2, 18, 0>, <2, 39, 0>, <2, 83, 0>, <3, 15, 0>, <3, 41, 0>, <4, 27, 0>, <4, 64, 0>}
aaataa..aaa	{<0, 43, 0>, <1, 71, 0>, <2, 28, 0>, <3, 51, 0>, <4, 37, 0>}
acagg..ta.gcc..c	{<0, 64, 0>, <1, 55, 0>, <2, 49, 0>, <3, 25, 0>, <4, 48, 0>}
tactata.....ttac	{<0, 80, 0>, <1, 82, 0>, <2, 93, 0>, <3, 69, 0>}
aa..a...a	{<0, 43, 0>, <1, 71, 0>, <2, 28, 0>, <3, 51, 0>, <4, 37, 0>}
Actata	{<0, 80, 1>, <1, 82, 1>, <2, 93, 1>, <3, 69, 1>}

Footnotes:
7. sequence id 1 in accompanying sequence listing

Docket JP920030152US1

Appl. No.: 10/699,024
Filing Date: October 31, 2003

Please amend Table 4 on page 15 as follows:

TABLE 4

Variation Tables

Replet	Variation Entries
cgcgcgcgcg[8]	{}
aaataa..aaa	{<0, "aa">, <1, "tg">, <2, "tt'>, <3, "ct">, <4, "ga">}
acagg..ta.gcc..c	{<0, "aggtt">, <1, "gcctg">, <2, "tagaa">, <3, "gccaa">, <4, "ccatt">}
tactata.....ttac	{<0, "actga">, <1, "cattc">, <2, "tcata">, <3, "tatca">}
aa..a...a	{<0, "ataaa">, <1, "atatg">, <2, "atact'>, <3, "atatt">, <4, "ataga">}
Actata	{}

Footnotes:
8. sequence id 1 in accompanying sequence listing

Docket JP920030152US1

Appl. No.: 10/699,024
Filing Date: October 31, 2003

Please amend Table 5 on page 15 as follows:

TABLE 5

Indirection Table

Replet	Table Entries
cgcgcgcgcg[9]	{<0, 19, null>, <0, 54, null>, <1, 17, null>, <2, 18, null>, <2, 39, null>, <2, 83, null>, <3, 15, null>, <3, 41, null>, <4, 27, null>, <4, 64, null>}
aaataa..aaa	{<0, 43, 0>, <1, 71, 1>, <2, 28, 2>, <3, 51, 3>, <4, 37, 4>}
acagg..ta.gcc..c	{<0, 64, 0>, <1, 55, 1>, <2, 49, 2>, <3, 25, 3>, <4, 48, 4>}
tactata.....ttac	{<0, 80, 0>, <1, 82, 2>, <2, 93, 2>, <3, 69, 3>}
aa..a...a	{<0, 43, 0>, <1, 71, 1>, <2, 28, 2>, <3, 51, 3>, <4, 37, 4>}
Actata	{<0, 81, null>, <1, 83, null>, <2, 94, null>, <3, 70, null>}

Footnotes:
9. sequence id 1 in accompanying sequence listing

Docket JP920030152US1

Appl. No.: 10/699,024
Filing Date: October 31, 2003

Please amend Table 6 on page 16 as follows:

TABLE 6

Sequence backbones

bseq 1: gctactgggtaatagcagagagcgcgaccagtg[10]

bseq 2: cagtaatcggactccagaaggagcggtgaggcg[11]

bseq 3: acttgatcggtagctagacggagaagctcccaaaac[12]

bseq 4: caaattgtaggggagacctccacttacaagacgcttatgcaagggctac[13]

bseq 5: cacgggacgaaagtaattcgtagggggggctatgcggcgaaatccgagc[14]

Footnotes:
10. sequence id 14 in accompanying sequence listing
11. sequence id 15 in accompanying sequence listing
12. sequence id 16 in accompanying sequence listing
13. sequence id 17 in accompanying sequence listing
14. sequence id 18 in accompanying sequence listing